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An

Inaugural Essay

on

Paralysis or Palsy  
for the

Degree of Doctor of Medicine  
in the

University of Pennsylvania

by

Henry Myers

of

Virginia

Philadelphia January 2<sup>d</sup> 1828

April 1st 1851

Dear Mother

I have just received

your letter

of the 27th inst.

and am

glad to hear

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Yours affectionately



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### Paralysis or Palsy.

The term Palsy is an abbreviation of Paralysis or Paraly-  
sis, which is derived from the Greek verb *παλῶ*, signify-  
ing "to weaken" - Palsy, and Apoplexy were esteemed among  
the most ancient writers, as the same disease. Another the  
word Paralysis or Palsy is to be found in the works of Hip-  
pocrates, but the Author incidentally speaks of the affection con-  
sider the head of Apoplexy; and (according to Dr. Cooke) Avicenna,  
Iscariot, Galen, Alexander Trallianus, Aetius, and Paulus Aegineta,  
describe the different kinds of Paralysis, as Apoplexy,  
and assert that they are one, and the same. The general  
opinion upon the subject now is, that they are in a mea-  
sure the same, in as much as, each is frequently produced  
by the same Causes, presenting similar symptoms, and  
exhibiting, at times, like phenomena. Dr. Ferrius tells us, that  
though Palsy does resemble Apoplexy very nearly in all its  
symptoms, and general nature, and is often occasioned by  
it, yet, the former should be considered more strictly a ner-  
vous affection, and less connected with a morbid state of  
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the sanguiferous or respiratory organs; and that the nerves both of motion, and of sensation, may be equally affected, and some of the faculties of the mind may participate in that affection, yet the latter are never lost in the same degree, as they are in Apoplexy. Thus, there is one great distinction between the two diseases; that the extent of action, and the extent of morbid influence, are much greater in Apoplexy, than in Palsy. Yet this is not the sole difference; for, tho' Apoplexy, many, and deathly does often terminate in Paralysis, it is not by any means a necessary result; for it often exists without leading to any such effect, and Palsy may make its appearance, without any previous attack of Apoplexy. Again, tho' the diseases deathly be quite common together, yet there are some belonging to peculiarly to each, that they can never be confounded.

Many and various have been the definitions given of Palsy, but they seem to have been framed rather for the support of some favorite theory, than as an accurate

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accurate description of the disease. Some have defined  
 it, "An impotence of motion"; others, "An incapacity of  
 sense, or motion, when the person is awake"; and a third,  
 "A corporeal torpidity, and muscular immobility, more, or  
 less general, without dumbness." Dr. Croke, in his highly  
 instructing, and excellent work on "Nervous Diseases," in  
 addition to these, has enumerated many others, all im-  
 perfect, and has offered one, which he considers "as compre-  
 hending all the Chief Characteristics of Palsy." He says  
 "It is a disease, in which there is a diminution, or total loss,  
 of the power of voluntary motion, or of sensation, or of both,  
 in some particular part, or parts, of the body, without Coma."  
 Whether there is ever an entire loss of sensation is a point  
 not precisely settled, but the weight of Authority appears  
 to be greatest on the side, that the power of sensation does  
 exist in some degree in all Cases, and is, not at all im-  
 paired in many. - Indeed the same author, shortly after-  
 wards, observes that Palsy Chiefly consists in the loss of  
 voluntary motion; for sensation is a greater or less degree  
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generally remain, say, in certain Cases, it is markedly  
increased"; and then states, "I never saw a Case of Pal-  
sy, in which sensation was entirely lost" - On this point  
Dr. Good speaks very clearly, and nearly to the same a-  
mount. He says "The senses chiefly affected, are those  
subservient to voluntary motion, but the accompani-  
ing powers of feeling, in most Cases, participate in the  
torpidity, tho' not in an equal degree". The appearance  
of presumption might deter me from attacking any  
opinion of Dr. Cooke's, were I not supported in so doing  
both by the assertions of that eminent Gentleman himself,  
and of Dr. Good. For it is very evident that the statements of  
the former (which follow his definition and which are  
quoted from him above) are nearly in direct opposition  
to that part of his definition, which says, "that palsy consists  
in a total <sup>loss</sup> of sensation". Were it not better to have said, "It  
is a disease in which there is a diminution, or an entire  
loss, of the power of voluntary motion, accompanied gene-  
rally by a greater or less diminution of that of sensation without  
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Come? This alteration is humbly suggested, as it may per-  
 haps lead to a more correct idea of the disease; if it is  
 wrong, it is the result of a misconception, and can do no  
 injury to the reputation of that author, whose genius, and whose  
 experience have shed so much light upon the medical  
 world. The humble follower in the path of science, has  
 little left him but to imitate; for, while there are many sub-  
 jects still involved in darkness, and in mystery, they have  
 been so often spoiled by the talent of preceding ages, that  
 we are forced to turn from their investigation in despair, with  
 the sad conviction, that he who would shine in the present  
 day, must be content to do so with a borrowed light.  
 The question then occurs, how are we to account for the fact,  
 that in Paralysis there may be a loss of motion, while the  
 power of sensation remains entire, and that sensation may  
 be impaired, without any injury of the power of motion?  
 Different theories have been advanced. The present explanation  
 seems to be, that there are two sets of nerves, one for motion, the  
 other, for sensation. These are distinct in their origin, course, and  
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distinction, but conferred in the same South, and that, on this ac-  
 count, the nerve of Motion may be injured, without at all in-  
 volving the nerve of Sensation. Mr C. Bell in his late work  
 on the nervous system, gives an account of his experiments upon  
 e.g. Rabbits, and Apes, in which he divided the nerves of Motion,  
 the Consequence of which was, a loss of the power of Motion, on  
 the part supplied by that nerve, while the power of Sensation  
 was in no way affected; and of others, in which he divided the  
 nerves of Sensation, in which Case, the power of Sensation was  
 lost, while that of Motion was as perfect as ever. It would  
 appear, then, that an injury done to one set of Nerves, does  
 not necessarily produce a corresponding effect upon the other  
 set, which at once explains the apparent Phenomenon.  
 The same Author in a communication, upon the subject, to  
 Dr. Coste, concludes with the remark, "that respecting the diffe-  
 -rent an effect as that of Pain on one side, and Con-  
 -vulsion at the other side of the ~~spinal~~ Cord, the subject has  
 appeared to me so obscure, and difficult, that I have re-  
 -sented to grapple with the question." &c. If this great  
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Physiologist has never ventured to grapple with the question, we must wait, with patience, until time, and a longer experience, shall dissipate the clouds of doubt which envelope it, and be satisfied, at present, to know, that the fact is so, without being able to account for it. Another matter of dispute among writers on this disease, is, whether the cessation of Cold is a constant attendant upon an attack of it, but it is now generally considered to be so, and should be considered as one of the characteristics of the affection. —  
Sensibility is not then lost.

Paralysis is divided into three distinct species, adapted to the manner in which it attacks, and to the parts affected. When one half of the Body is affected longitudinally, that is to say, when one side of the Face, and the Arm, Leg, &c. of that side, is the seat of the disease, it is denominated 'Hemiplegia'; when the Body is attacked transversely, it receives the name of 'Paraplegia', and when only certain muscles, or a particular limb becomes paralytic, it is called, 'Paralysis partialis'. The first is met with more frequently, than either of the other two, and, in the generality of cases,

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Cause, is the effect of Apoplexy, while many instances occur, in which it cannot be traced to any such disease. Some Authors assert, whose opinions are esteemed highly, that by a strict attention, and a rigid examination, some of the appearances of Apoplexy will, in <sup>the</sup> greater number of Cases, be found to precede an attack of Hemiplegia.

'Paraplegia' is said, most generally, to be owing to some disease of, or injury done to, the <sup>almost</sup> Spine. It may <sup>almost</sup> always be ascribed to this Cause, when the lower half of the Body is affected, & thus, in the opinions of most writers on the subject, is often the seat of the disease, than the upper part of the Body - some of the Causes of Hemiplegia, and consequently of Apoplexy, are also enumerated among those of this form of the disease. When it arises from injury, or disease of the Spine, it is said to make its attack suddenly, and in the other Cases, its appearance is reported to be slow, and its approach insidious. 'Paralysis partialis' may be the effect of the general Causes of the Paralysis, owing its limited extent to those Causes acting in a slighter degree, or not being sufficiently powerful <sup>to</sup>

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to produce one of the other forms. Partial palsy may be the precursor of Hemiplegia, or Paraplegia, and its further progress being prevented, it may be made to exist in this limited extent, thus rendering it ascribable to one of those diseases, or to the Cause producing those affections. But local palsy has its own peculiar Causes, independent of either of the other forms. These are, Tumours pressing upon the nerves, exposure of a particular part of the body to a current of Cold, damp air, and, also exposure to the fumes of certain metallic substances, especially of Lead, and Mercury. Workers in these articles are said to be particularly liable to the disease, and instances are related of persons having been attacked from sleeping in a newly painted room, in which white lead had been employed, and others, where they have been seized with it, from staying in a room where lead was frequently melted; while Cases are not wanting to prove the fact, that the mercurial preparations are equally instrumental. Fatigue of certain muscles is also enumerated amongst the other Causes, and likewise irritation of the intestines.

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this disease are the same as those of Apoplexy, in as much as the latter affection generally precedes the former. These are principally advanced Age, debilitated Constitutions, and certain Peculiar states of the System. Although the disease most frequently makes its attack upon persons advanced in years, yet, Children are by no means exempt. They may be hereditarily disposed to it, or they may possess those habits of body, which are found to favor, and facilitate the existence of this Malady; such as a large head, short neck, Corpulency &c. A sedentary mode of life, especially when accompanied by habits of intemperance in eating or drinking; the cessation of certain accustomed discharges, as a suppression of the Menstrues, or of a copious hemorrhoidal flux, or the drying of long standing Ulcers &c.

The Chief Exciting Causes are extremes of Heat, and Cold, an exposure to the rays of the sun, too frequent use of the warm bath, drinking hot, diluent liquors immoderately &c. The passions of the mind, as Grief, Fear, and Anger, frequently produce the disease. There are also exciting Causes  
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of Apoplexy, but here Palsy draws a line of distinction between itself and that disease; for although the above are causes common to both, yet if they do not act in a sufficient degree to excite apoplexy, the Consequence may be Palsy. Much dispute has arisen as to the influence of Compression on this disease. The advocates for it, say, that it is always owing to Compression, & that it cures it. The former adduce many experiments to substantiate their opinion; among these is M. Portal. Dr. Cooke has enumerated many of this Gentleman's experiments, in which Pressure, if sufficiently strong, and long continued, did bring about the result; whilst M. Lemes, who denies the theory of Pressure, says, that his experiments confirmed him in his opinion. How are these Contradictory statements to be reconciled? The error into which these Gentlemen seem to have fallen, is, that one of them declares Pressure to be always the cause, and the other, <sup>that</sup> it never is. The fact then appears to be, that Apoplexy, and Palsy may very often be ascribed to this cause, and that, in many instances, they cannot be traced to it.

The Diagnosis and Prognosis, are said to be easy. The history

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history of the disease, when compared with of Apoplexy, (which it most resembles) will enable us to establish the first, and renders it so manifest that there is <sup>little</sup> fear of mistaking this for any other affection. If the distention is relaxed, a greater freedom of motion established, the action of the Bowels regular, and especially a sense of returning warmth experienced, the Prognosis is favorable. But if the disease has been of long standing, the limbs much wasted, and debility considerable, a cure is deemed nearly hopeless.

Treatment This is divided by authors into that which is applicable to Hemiplegia, that to Paraplegia, and that to Local Palsy. The general treatment of the disease may be summed up in a few words. The limits of a Thesis will not allow <sup>me</sup> to enter into <sup>that</sup> appertaining to the different varieties, which at best would necessarily be a compilation, my experience being too slight to warrant my suggesting any thing new, but I will presently, with the permission of those before whom this paper has to appear, state a case of Hemiplegia, which fell under the treatment of my Preceptor Doctor John Cullen.

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of Richmond, the attending Physician of the Infirmary of that place, and the purveyor of which, I had the honor, and satisfaction of conferring with him. The general Treatment of Palsy divides itself into that which is proper as a preventive, and that which is suitable when the disease has made its appearance. It has already been stated, that certain habits of the Body predispose to the disease, such as a large head, short neck &c. Under these Circumstances, we cannot remove the predisposing Cause, so that our remedies must consist of those articles which will operate as palliation. There are low diet, abstinence from all liquors which tend to heat the system, and increase arterial action, moderate exercise, so as to induce perspiration without fatigue, whereby the body would become overheated, and too great an action of the lungs induced, the consequence of which might be an accelerated flow of Blood to the head. The Bowels should be kept open by mild Laxatives, and Dr. Cullen recommends, in cases where there is a natural tendency to apoplexy, Bleets, leeches, or issues, on the nape of the neck, so as to keep up a constant discharge. When the disease has made its appearance

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attended by Apoplethic symptoms, vensection must be resorted to. This of course is to be regulated, by our circumstances, as the age of the Patient, his general Constitution, Strength &c. But when all Contra-indicated, the Lancet must be used, & only in the quantity of Blood drawn should be large, and repeatedly taken. Purgatives are next to be employed, until the Bowels have been freely evacuated. Emetics next claim our attention, but these are to be given with considerable Caution. The Emac which is known to excite violent action tends greatly to increase the flow of blood to the head, and whilst any such disposition in the system remains, emetics should be avoided if possible or, if there be an accumulation of foul matter in the stomach, they should be postponed, until that predisposition is removed.

Diaphoretics, Diuretics, and Diagogues have all had their advocates, but on the present day are seldom, or never employed. When the disease is of long standing, and all tendency to Apoplexy has disappeared, or, in other words, when it exists only as Palsy, independent of its primary causes and symptoms

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Symptoms, Stimulants become highly useful. - These are ap-  
plied externally, and internally. - Of the former, Friction,  
Blisters, sanguisuga, fomentations, the warm, and Cold bath, Elec-  
tricity, and Galvanism, have all had their share of confidence.  
Electricity, particularly, has been found beneficial. The Euro-  
pean writers, and especially the French, speak very highly  
of it. Many cases are recorded of its efficacy upon authority,  
which must ever command respect. The mode of applying  
it, is by means of the wooden point, by which it is administered  
delicately, and moderately, and the ill consequences by some said  
to result from a shock or spark, avoided. The remedy however  
has failed in many instances, and its effects though beneficial  
at first, being transient, it has, of late years, been laid aside.  
The same may be said of Galvanism, which we are recommended  
to apply moderately at first, and to increase the number of plates,  
and consequently the force, gradually. The actual Cure-  
tary, and Moxa have both been employed, and are much  
confided in by some practitioners.

The principal external Stimulants are, the Rhin  
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*Toxicodendron*, or *Poison Oak*, the *Blackberry* and *Urtica*, the *Sore Throat*, and the *Mustard* seed. The leaves of the *Poison Oak* are used, given at first in the dose of half a grain, repeated twice, or three times a day; the dose then gradually increased to three, four, five, and six grains per diem. The *Urtica* resembles the *Poison Oak* in its effects, but possesses this advantage, that we are able to administer it in larger doses, without the fear of doing an injury to the patient. This remedy was employed in the case alluded to above, as an account of which I shall now give.

Elphes Hughes, aged forty-two, belonging to the City Guard, was attacked, on the night of — November, 1836, while on guard, with vertigo, loss of muscular <sup>power</sup>, and speech, but, according to his own account, retaining perfect consciousness. In about fifteen, or twenty minutes, he recovered a partial use of his speech, and the entire muscular power of the right side, there being a total paralysis of the left, attended with a sensation of great coldness, and a difficulty of micturating. Several days previous to the attack, he had complained of occasional vertigo.

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vertigo, which was ascribed to his intemperate habits. He was  
 admitted into the Infirmary at Richmond, in April 1827, and  
 was first seen by Dr. John Cullen, on the first of June following.  
 From what could be learnt of his previous treatment, nothing  
 more than slightly stimulating frictions had been employed,  
 which were productive of little, or no benefit. The left side still  
 paralytic, with the sensation of Cold; the patient complaining  
 of occasional shooting pains in the extremities, and difficulty  
 of passing his urine; his face distorted, and drawn to the right  
 side - pulse small, regular, and at about sixty five, tongue  
 clean, and the functions of the digestive Canal, well performed.  
 He was ordered, Sub. Mur. Hyd. gr. xij

Pulv. Jalap. . . . . 22v, which operated  
 well, and the day following, the treatment with Nux Vomica  
 commenced. Two pills, each containing grs iv, were given him  
 during the day, which quantity was continued, four days with-  
 out any visible effect. These pills were now ordered, each con-  
 taining grs iv, when at the expiration of three days, the number  
 was increased to four pills per diem. The day following his  
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taking this additional quantity, the patient reported that the  
 leg of the affected side, had been drawn forcibly upwards,  
 and forwards, and the arm of the same side, backwards; and  
 that there was a sense of heat experienced over the entire paraly-  
 tic portion. The continuance of the four pills being attended with  
 no additional effect, at the expiration of four days, another  
 pill was added to the number, which seemed only to keep up the  
 Convulsive movements. Twenty four grains were now ordered,  
 when so remarkable an increase of the effect took place, that  
 the Patient was tripped up several times when in the act of  
 moving. The dose was continued a few days, when finding  
 the effect subsiding, twenty eight grains per diem, were admin-  
 istered. The effect of this quantity made its appearance, chief-  
 ly at night, when the patient was awakened, by being, as he  
 reported, so forcibly drawn from his bed, that he thought some  
 one was actually raising him. The remedy was now laid  
 aside for a time, an active Cathartic prescribed, and the  
 spine irritated in its whole course with Tartar Emelic  
 Ointment. The healthy side, during all this period was

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no wise affected by the remedy, nor did it excite any disturbance  
 of the head, stomach, or intestines, its action being confined to  
 the paralytic side exclusively; which had been so far benefit-  
 ed, as to enable the patient to walk with tolerable facility,  
 to go through the manual exercise, indicating the partial  
 restoration of muscular power to the arm, and the distortion  
 of the face was considerably diminished. The treatment was  
 suspended for some days, during which time, he was ordered  
 to take moderate exercise; when, on the 12<sup>th</sup> of July, the *Nux*  
*Vomica* was resumed, in the dose of twenty four grains du-  
 ring the day, which on the 14<sup>th</sup> was increased to thirty two grains.  
 This reproduced the convulsive movements, amounting on a  
 short time to nervous tremors; on which account the remedy  
 was again laid aside. His general health is now good,  
 the power of motion in a great measure restored, no difficulty  
 of micturating, and an equality of heat over the whole surface  
 established; while the distortion of the face is scarcely perceptible.

Many Cases similar to this, have been recorded,  
 attended with like results, from the use of the *Stramonium* *Nux*  
*Vomica*.

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Veronica, and every one that is now added to the list, will serve to strengthen our confidence in it. The use of this medicine is said to have been attended with tetanic symptoms, resulting most probably however from its abuse; but until it is shown, that it takes place in a proportionate number of cases, we are warranted in employing it.

The root of the Horse Radish, and the seeds of the Sinapis, or Mustard, are given, in substance, infusion, and decoction, in large doses; and are pronounced to be efficacious. The whole Catalogue of Stimulants has been exhausted by different Authors. The Cantharides, and Volatile Alkali however, deserve particular attention, and we should certainly place great confidence in the latter, when we find it acting so powerfully, and so beneficially, in the greater number of diseases, which require the use of this class of Remedies. When a cure has been perfected the patient should be cautioned, never to expose himself to a cold damp atmosphere, to avoid all strong liquors, and to be very careful in his diet. The Stannous Salts, or Stan-  
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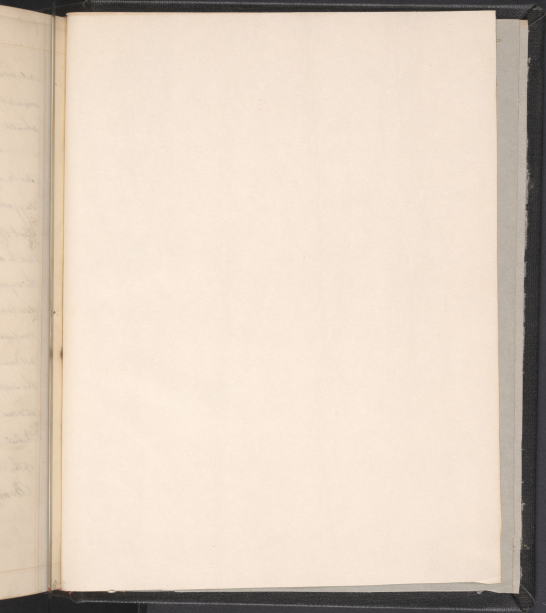
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and worn rest, the Shen has been found by some of our most eminent practitioners a great preservative against cold, and should be used by such patients,

I have thus endeavoured to give the History, Causes &c. of Palsy; not however with the <sup>slightest</sup> hope that I could suggest anything new or instructive. But in the long List of Diseases that "flashes here to", none is better calculated to command the attention of the Physician, or excite the sympathy of the Philanthropist, than the one just under consideration:— for it is one, whose ravages are not confined to the Body, but often extend to the Mind; one, not causing immediate death, <sup>its</sup> twice, but which dooms the sufferer to a life of mental, and corporeal inactivity, and one, certainly, which, when completely under our Control, will add greatly to the many comfortable reflections of the Practitioner, and entitle him to the appellation of the Benefactor of Mankind.







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